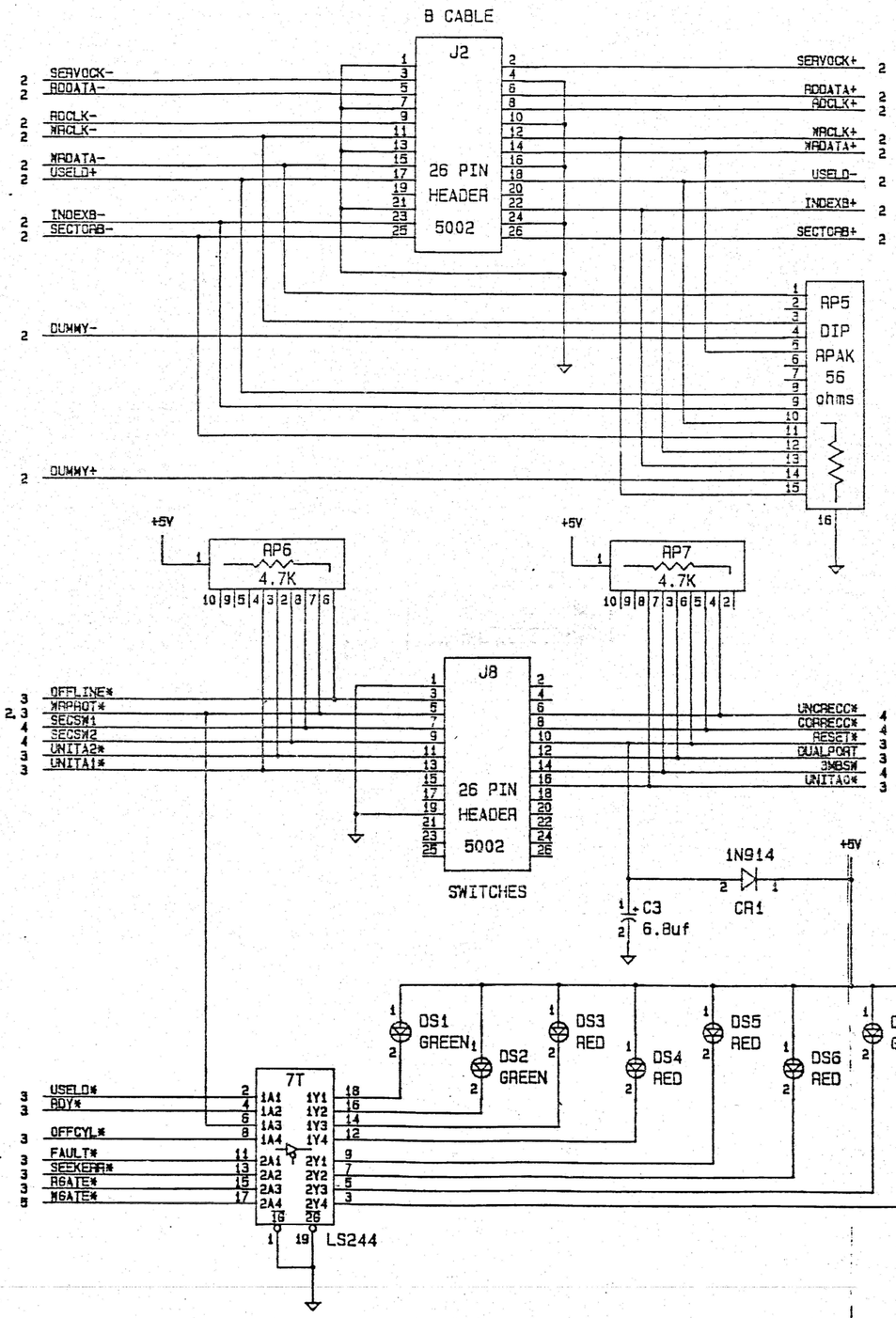
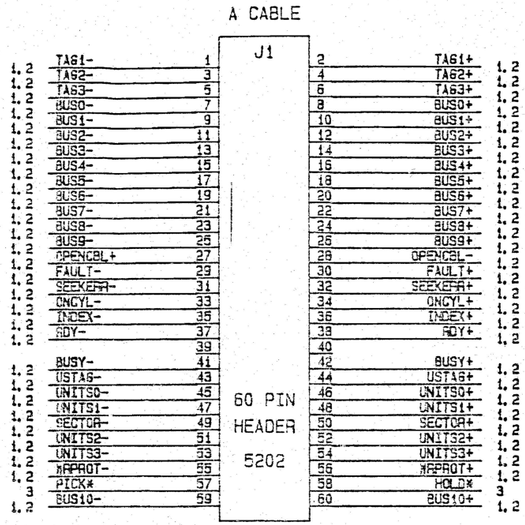
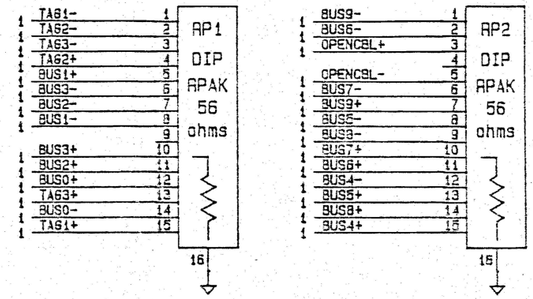
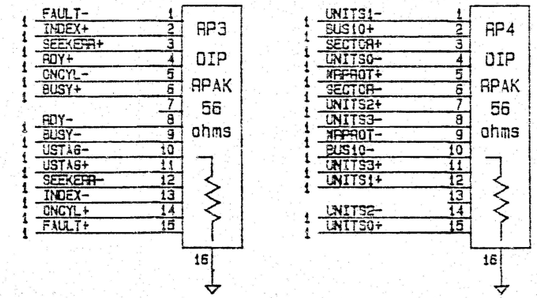
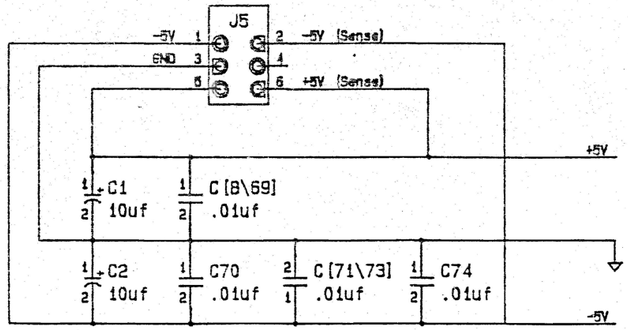
REVISIONS				
ZONE	REV	DESCIPTION	DATE	APPROVAL
	A	PC LAYOUT	10/86	SEJB
	A1	FIRST RELEASE	11/86	SEJB



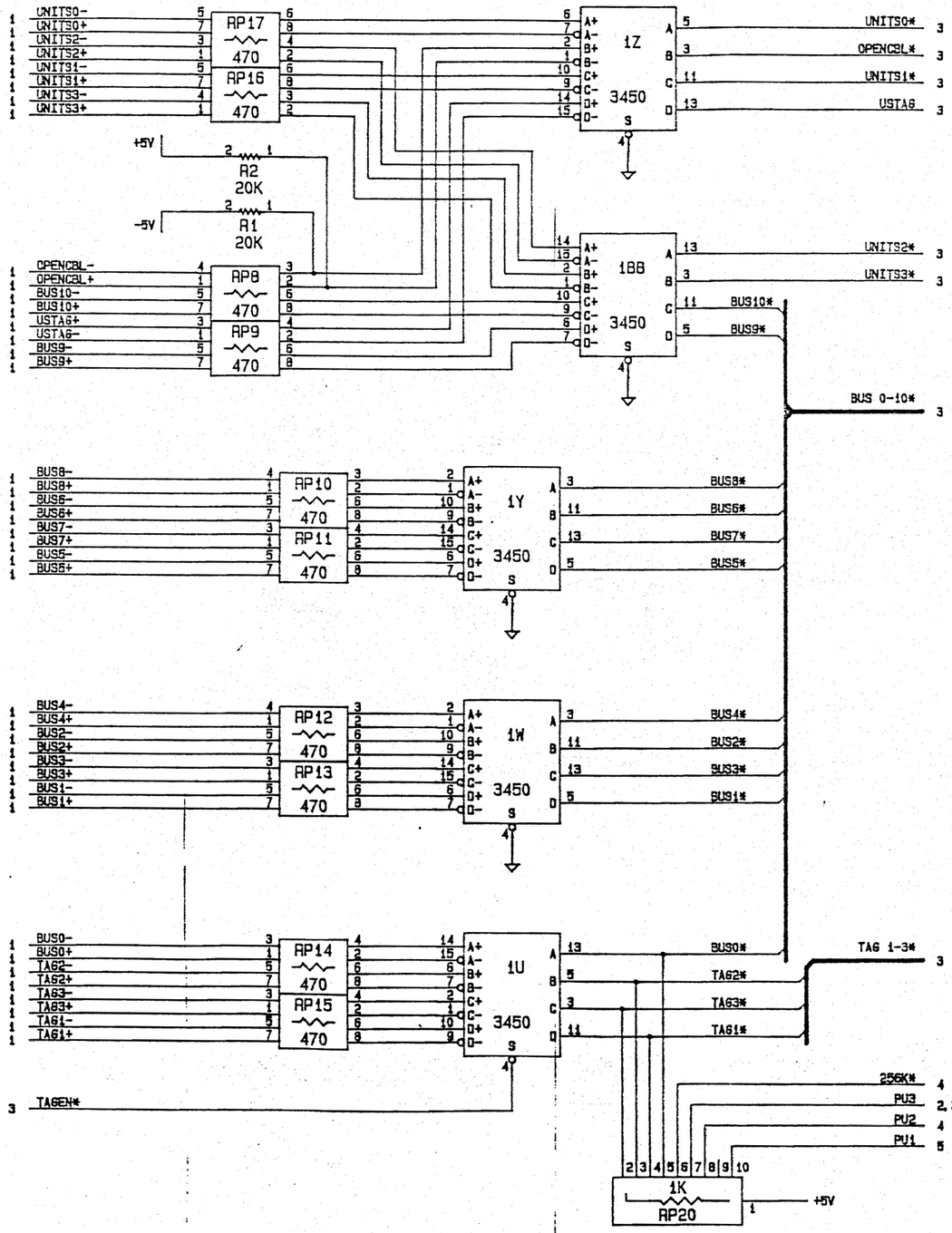








DO NOT SCALE THIS DRAWING		SPECTRA LOGIC	
SIGNATURES	DATE	TITLE S03 DISK & TAPE EMULATOR	
DRAWN BY:			
CHECKED BY:		DRAWING NO. 6200071	
APPROVED BY:		REV A	SHEET 1 OF 10



SPECTRA LOGIC

TITLE	S03	DISK & TAPE EMULATOR	
DRAWING NO.	6200071		
REV	A	SHEET 2	OF 10

BUS 0-10*

256K*

TAG 1-3*

WRPROT*

RESET*

WRLOAD*

PAL A

PAL B

2X 27S185 2KX4 PROM

2W 16L8 PAL

2V 16L8 PAL

2U LS174

MULTIBIT

WGATE

RGATE*

FAULT* 1,2

WGATE 4

RGATE* 1,5

SEEKERR* 1,2

R+WGATE 5

CYLADD2 4

CYLADD1 4

CYLADD0 4

HDADD0 4

WRT 5

+5V

R5 10K

C5 1.0uf

3MS

3BB 26S02

ONCYL

3Y LS11

OFFCYL* 1,2

PU3

DUALPORT

PICK*

HOLD*

OFFLINE*

CR2 1N914

CR3 1N914

R3 470

R4 470

2AA LS02

R6 33K

C4 1.0uf

10 MS

3AA LS74

BUSY* 2

3Z LS00

RDY* 1,2

TAGEN* 2

USELD 2

USELD* 1

UNITA2*

UNITA1*

UNITA0*

UNITS3*

UNITS2*

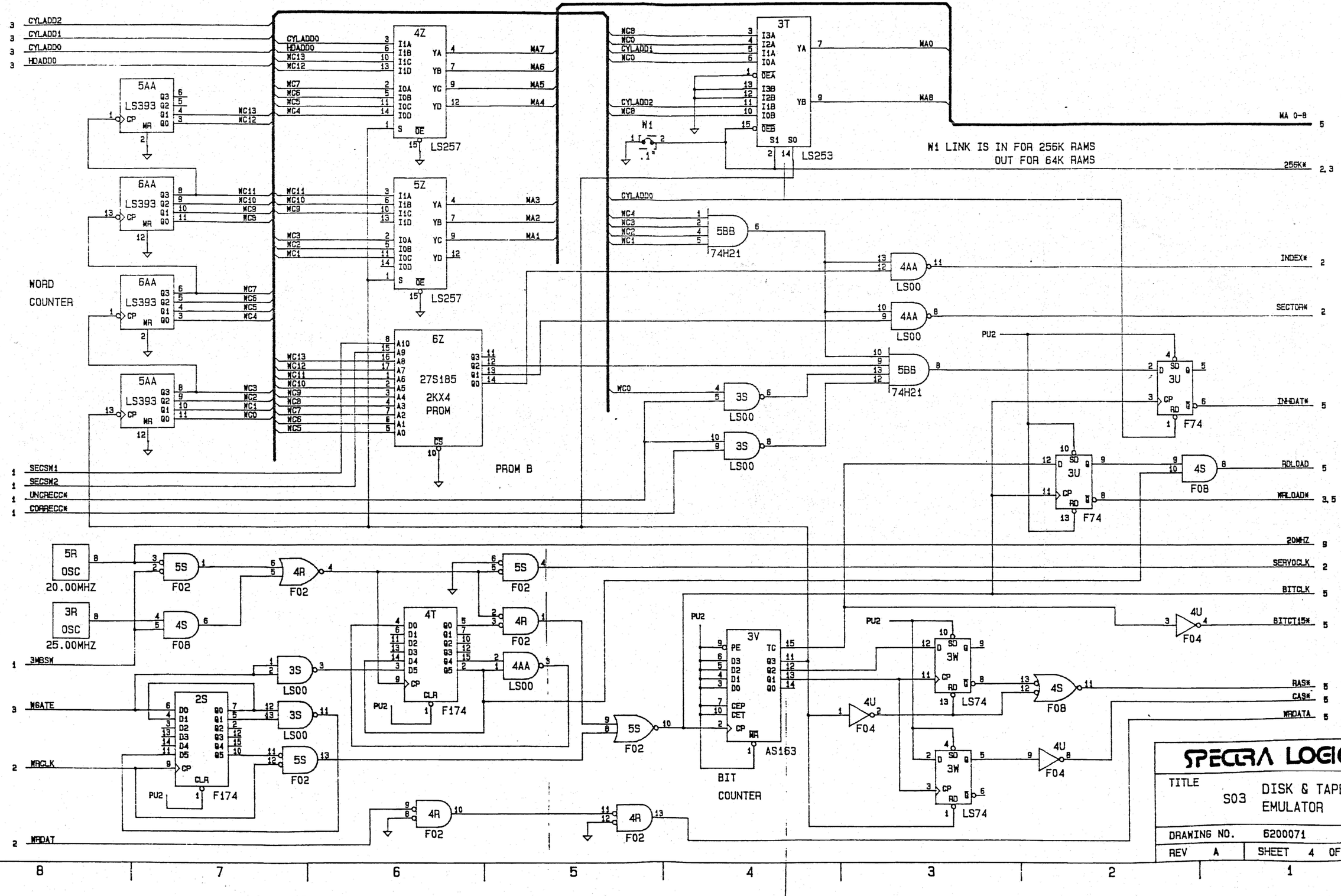
UNITS1*

UNITS0*

3X S85

USTAG

OPENCBL*


WORD COUNTER
CYLADD2
CYLADD1
CYLADD0
HDADD0
5AA
6AA
LS393
4Z
5Z
6Z
27S185
2KX4
PROM
LS257
PROM B
3T
LS253
W1
W1 LINK IS IN FOR 256K RAMS
OUT FOR 64K RAMS
MA0
MA8
MA 0-8
256K*
5BB
74H21
4AA
LS00
INDEX*
SECTOR*
PU2
3S
3U
F74
IN+DAT*
4S
F08
RDLOAD
WRLOAD*
SECSW1
SECSW2
UNCRECC*
CORRECC*
5R
OSC
20.00MHZ
25.00MHZ
5S
F02
4R
20MHZ
SERVOCLK
BITCLK
4U
F04
BITCT15*
3MBSW
4T
F174
3V
AS163
BIT COUNTER
3W
LS74
RAS*
CAS*
WRDATA
WGATE
WRCLK
WRDAT
SPECTRA LOGIC
TITLE
S03 DISK & TAPE EMULATOR
DRAWING NO. 6200071
REV A
SHEET 4 OF 10

MA 0-8

INHDAT*

RAS*

CAS*

MRT*

MRLOAD*

WRDATA

RDLOAD

R+MGATE

MGATE

RGATE*

BITCT15*

BITCLK

MGATE* 1

RDDATA 2

RDCLK 2

4S F08

4U F04

4U F04

4U F04

PU1

5T F299

6T F299

6U 2952

5U 2952

4V 256K DRAM 150NS D4

5V 256K DRAM 150NS D3

4W 256K DRAM 150NS D2

5W 256K DRAM 150NS D1

4X 256K DRAM 150NS D8

5X 256K DRAM 150NS D7

4Y 256K DRAM 150NS D6

5Y 256K DRAM 150NS D5

6V 256K DRAM 150NS D12

7V 256K DRAM 150NS D11

6W 256K DRAM 150NS D10

7W 256K DRAM 150NS D9

6X 256K DRAM 150NS D16

7X 256K DRAM 150NS D15

6Y 256K DRAM 150NS D14

7Y 256K DRAM 150NS D13

SPECTRA LOGIC

TITLE S03 DISK & TAPE EMULATOR

DRAWING NO. 6200071

REV A

SHEET 5 OF 10

J3
50 PIN EDGE CONN .1"
IFBY* 6
TLWD* 6,7
IN4* 6,7
IG0* 6,6
IN0* 6,7
IN1* 6,7
TLOL* 6,6
IREV* 6,7
IREM* 6,6
IWP* 6,7
IN7* 6,7
IN3* 6,7
IN6* 6,7
IN2* 6,7
IN5* 6,7
INRT* 6,7
IEDIT* 6,7
IERASE* 5,7
IMFM* 6,7
ITADO* 6,6
IR2* 7
IR3* 7

J4
50 PIN EDGE CONN .1"
IRP* 7
IA1* 7
IR0* 7
ILOP* 6
IR4* 7
IR7* 7
IR6* 7
IHER* 9
IFM* 7
ICCG* 9
IFEN* 6,7
IR5* 7
IEOT* 6
IOFL* 6,6
INRZ* 6
IRDY* 6
IRWD* 6
IFPT* 6
IRSTR* 9
IWSTR* 9
IDBY* 6
ICEM* 9
IONL* 5
ITAD1* 5,6
IFAD* 6,6
IDEN* 6,6

1C
330
+5V
IN4* (6)
IN5* (5)
IN0* (6)
IWD* (6)
IN7* (6)
IN1* (6)
IN2* (6)
IREV* 6
IEDIT* 6
IN6* 6
IERASE* 6
IWP* 6
INRT* 6
IN3* 6

1F
220/330
+5V
IG0* 6
ILOL* 6
ITADO* 6
ITAD1* 6
IOFL* 6
IDEN* 6
IREM* 6
IFAD* 6
IMFM* 6
IFEN* 6

1E
LS240
IFAD* 6
ITAD1* 6
ITADO* 6
IDEN* 6

1E
LS240
IG0* 6
ILOL* 6
IREM* 6
IOFL* 6

MRESFBY* 7

PU6

2F
S65
A<B 7
A=B 6
A>B 5
IA<B
IA=B
IA>B

2E
16L8 PAL
I1 I2 I3 I4 I5 I6 I7 I8 I9 I10
O1 O2 O3 O4 O5 O6 O7 O8

+5V
DS16 GREEN
DS14 RED
DS12 GREEN
DS10 RED
DS15 RED
DS13 GREEN
DS11 RED
DS9 GREEN

7J
LS240
DIAGPASS 9
DIAGFAIL 7
MAINFRM 10
EOT 9
LDP 9

MSEL 9
2J 7438
IEOT* 6
2J 7438
ILDP* 6
1H 7416
IRDY* 6
1K 7416
IDBY* 6
3J LS08
15 7416
IFBY* 6
FBY 7
2J 7438
ION.* 6
ONL 7
2J 7438
IRWD* 6
RWD 8
1H 7416
INRZ* 6
NRZ 10
1J 7438
IFPT* 6

+5V
RP23 3.3K
RP24 3.3K

J7
26 PIN HEADER 5002
STAD0
STAD1
SFAD
SONL*
SOFL*
SHEN*
SHDEN*
SFDEN*
SFPT
SINTPAR* 7
SHER 9
SCER 9
DISEDT* 8
100KB* 8
365KB* 8
455KB* 8
SPARERR* 7
SMRES* 7

SPECTRA LOGIC

TITLE	S03 DISK & TAPE EMULATOR
DRAWING NO.	6200071
REV A	SHEET 6 OF 10

DEST 0-11
SPARERR*
DATAOUT*
FBY
IN0*
IN1*
IN2*
IN3*
1B
LS240
IN4*
IN5*
IN6*
IN7*
1B
LS240
MMEMERR
SINTPAR*
IMF*
ILWD*
IREV*
IWRT*
1D
LS240
XSTR
DATAIN*
IMF4*
IEDIT*
IERASE*
IFEN*
1D
LS240
ONL
RDCMD*
EXTRES*
SWRES*
RDBAQ
RSTBSY
1A
S280
2A
LS257
2B
LS374
2C
LS374
2D
LS374
3A
LS74
5H
LS04
6N
LS04
6M
LS32
6M
LS32
SRC0
SRC1
SRC2
SRC3
SRC4
SRC5
SRC7
SRC9
SRC11
SRC10
SRC8
SRC6
SRC 0-11
2G
LS174
2H
LS174
DEST0
DEST1
DEST2
DEST3
DEST4
DEST5
DEST6
DEST7
DEST8
DEST9
DEST10
DEST11
1G
7416
1H
7416
1J
7438
IR0*
IR1*
IR2*
IR3*
IR4*
IR5*
IR6*
IR7*
IFMK*
IRP*
PARERR
3J
LS08
3J
LS08
5H
LS04
1N914
CR4
+5V
C7
6.8uf
5J
LS02
WRES*
DIAGFAIL
RMMERR*
WRESFBY*
8, 9, 10

SPECTRA LOGIC

TITLE S03 DISK & TAPE EMULATOR

DRAWING NO. 6200071

REV A SHEET 7 OF 10

J6
20 PIN HEADER
6002

2K
16R6

2L
2911A

2M
2911A

2N
2911A

3K
27S281
1KX8
PROM

3L
27S281
1KX8
PROM

3M
27S281
1KX8
PROM

3N
27S281
1KX8
PROM

3P
27S281
1KX8
PROM

5K
S251

6K
S251

RP26
1K

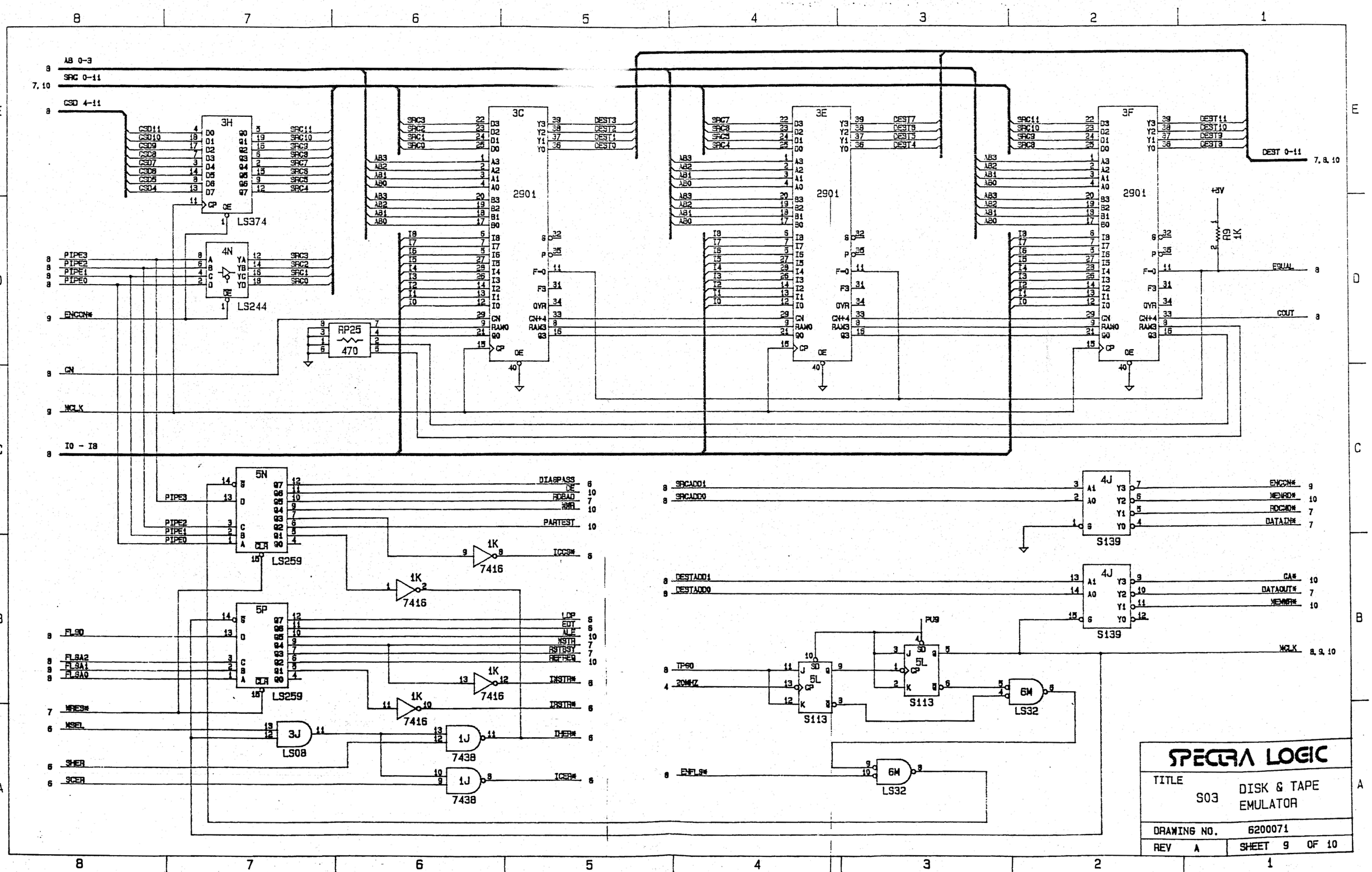
4M
LS174

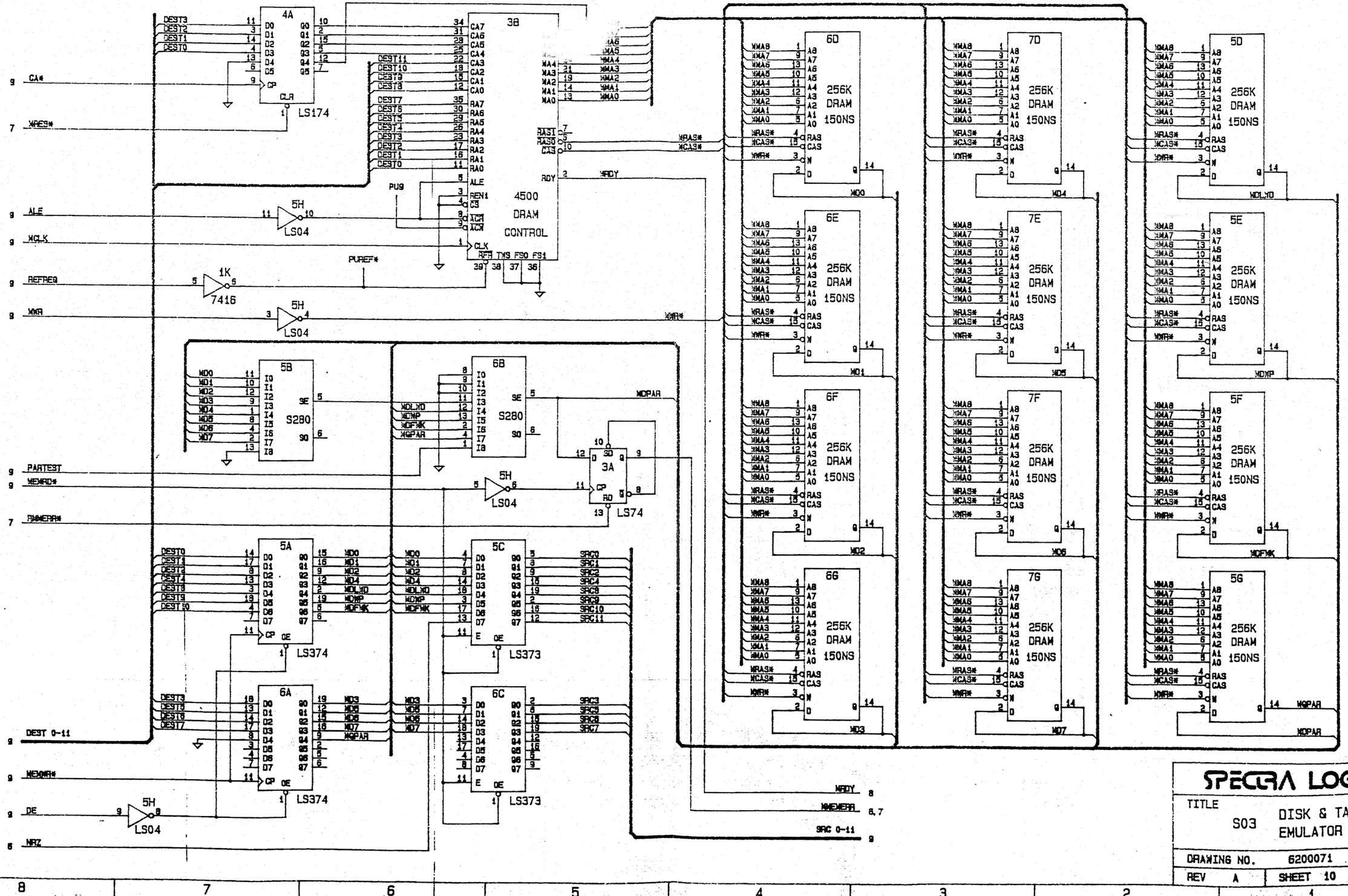
4L
LS273

4K
LS174

4P
F273

SPECTRA LOGIC	
TITLE	S03 DISK & TAPE EMULATOR
DRAWING NO.	6200071
REV A1	SHEET 8 OF 10


AB 0-3
SRC 0-11
CSD 4-11
3H
LS374
4N
LS244
3C
3E
3F
2901
RP25
470
+5V
R9
1K
DEST 0-11
7, 8, 10
EQUAL
8
COUT
8
PIPE3
PIPE2
PIPE1
PIPE0
ENCON#
9
CN
MCLK
IO - I8
5N
LS259
5P
LS259
7416
1K
3J
LS08
1J
7438
DIAGPASS
DE
RDBAD
WWR
PARTEST
ICCS#
LDP
EOT
ALF
WSTB
RSTDSY
REFREQ
INSTR#
IRSTR#
IWER#
ICER#
FLSD
FLSA2
FLSA1
FLSA0
WREN#
WSEL
SWER
SCER
4J
S139
SRCADD1
SRCADD0
ENCON#
MEMRD#
RDCMD#
DATAIN#
DESTADD1
DESTADD0
CA#
DATAOUT#
MEMWR#
WCLK
8, 9, 10
PU9
TP90
20MHZ
5L
S113
6M
LS32
ENFLSH#
SPECTRA LOGIC
TITLE
S03
DISK & TAPE
EMULATOR
DRAWING NO.
6200071
REV
A
SHEET
9
OF
10


4A
LS174
3B
4500
DRAM
CONTROL
5H
LS04
1K
7416
5B
S280
6B
S280
3A
LS74
6D
6E
6F
66
7D
7E
7F
76
5D
5E
5F
56
256K
DRAM
150NS
5A
LS374
6A
LS374
5C
LS373
6C
LS373
SPECTRA LOGIC
TITLE
S03 DISK & TAPE EMULATOR
DRAWING NO. 6200071
REV A
SHEET 10 OF 10